

### **ABSTRACT OF THE DISCLOSURE**

A vaccine including recombinant vaccinia virus (ATCC VR-1354) having  
an inserted gene for coding glutamic acid decarboxylase is used for preventing  
type 1 diabetes mellitus. The glutamic acid decarboxylase expressed from the  
recombinant virus suppresses or tolerizes the autoreactive T cell, and induces  
immunological tolerance, thus effectively prevents or delays the development of  
type 1 diabetes mellitus.

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